CONTENTS

Volume 17, Issue Nos. 1–12

International Journal for

NUMERICAL AND ANALYTICAL METHODS
IN GEOMECHANICS

Issue No. 1, January 1993

Fracture Energy Release and Size Effect in Borehole Breakout: Z. P. Bažant, F.-B. Lin and H. Lippmann 1

Slope Stability Analysis for Undrained Loading Conditions: R. Baker, S. Frydman and M. Talesnick 15

Parametric Infinite Element for Seepage Analysis: Y. Honjo and G. Pokharel 45

ANNOUNCEMENT 67

CONFERENCE DIARY 69

Issue No. 2, February 1993

Incident P and SV Wave Scattering Effects Under Different Canyon Topographic and Geological Conditions: C. Zhao and S. Valliappan 73

Blast Vibration Control in the Presence of Delay Scatter and Random Fluctuations Between Blastholes: D. P. Blair 95

The Numerical Simulation of Seasonal Soil Drying in an Unsaturated Clay Soil: H. R. Thomas and S. W. Rees 119

ANNOUNCEMENT 133

CONFERENCE DIARY 135

Indexed or abstracted by 'Abstract Jnl in Earthquake Engineering', 'Applied Mechanics Review', 'Boundary Elements Abstracts', 'Cambridge Scientific Abstracts', 'CTTIS-Civil Engineering Abstracts', 'cc/Eng. Tech & Applied Sciences', 'Engineering Index', 'Eng. Societies Library', 'Fiz Energie', 'Geotechnical Abstracts', 'Geo Abstracts: Physical Geography', 'Geodex', 'Georef', 'Indian Society of Earthquake Technology', 'INSPEC', 'International Petroleum Abstracts', 'Materials Science Citation Index (ISI)', 'Mathematical Reviews', 'Mechanics', 'Newsletter of Eng Analysis Software','Research Alert (ISI)', 'Science Citation Index (ISI)', 'SCISEARCH Database (ISI)', 'VINITI-USSR Acad. of Science', 'Zentrablatt fur Mathematik'.

Issue No. 3, March 1993

Green's Functions for a Fully Coupled Thermoporoelastic Material: D. W. Smith and J. R. Booker 139

Shakedown in Layered Pavements Under Moving Surface Loads: I. F. Collins, A. P. Wang and L. R. Saunders 165

Thermomecahnical Effects on Adsorbed Water in Clays Around a Heat Source: C. Ma and T. Hueckel 175

SHORT COMMUNICATION
Torsional Surface Wave in an Elastic Half-Space With Void Pores: S. Dey, S. Gupta and A. K. Gupta 197

LETTER TO THE EDITOR
Discussion on: Bounding Solutions for the Pressuremeter Modulus Using Variational Principles in Elasticity: H. S. Yu 205

ANNOUNCEMENTS 209

CONFERENCE DIARY 213

Issue No. 4, April 1993

Special Publication No. 1
on
Geoenvironmental Engineering

Effect of Sand Lenses on Groundwater Flow and Contaminant Migration: K. W. Edward San and R. Kerry Rowe 217

Calculation of Kinetic Rate Constants from Steady State Soil Profile Concentration Measurements: D. A. Barry, J.-Y. Parlange and P. J. Hensley 243

The Analysis of Pollution Migration Through Soil with Linear Time-dependent Sorption: D. W. Smith, R. Kerry Rowe and J. R. Booker 255

CONFERENCE DIARY 275

Issue No. 5, May 1993

Analytical Modelling of Hammer Impact for Pile Driving: A. J. Deeks and M. F. Randolph 279

Derivation of Material Variability from Settlement Measurements: D. G. Zeitoun and J. Uzan 303

Transient Infinite Elements for Seepage Problems in Infinite Media: C. Zhao and S. Valliappan 323

The Axial Loading of a Rigid Circular Anchor Plate Embedded in an Elastic Half-space: A. P. S. Selvadurai 343

ANNOUNCEMENTS 355

Issue No. 6, June 1993

Transient Response of a Circular Cavity in a Poroelastic Medium: T. Senjuntichai and R. K. N. D. Rakapakse 357

A Godunov Method for Localization in Elastoplastic Granular Flow: E. B. Pitman . . 385

A Finite Element Formulation in Lagrangian Co-ordinates for Heat and Fluid Flow in Compacting Sedimentary Basins: M. Wangen 401

CONFERENCE DIARY 433

Issue No. 7, July 1993

Special Publication No. 2
on
Geoenvironmental Engineering

Simulation of Groundwater Flow and Contaminant Transport at a Landfill Site Using Models: T. J. Franz and R. Kerry Rowe 435

Finite Element Modelling of Transport of Organic Chemicals through Soils: T. Kuppasamy 457

Boundary Element Analysis of Contaminant Transport in Fractured Porous Media: C. J. Leo and J. R. Booker 471

Modelling Coupled Heat and Contaminant Transport in Groundwater: P. J. Hensley and C. Savvidou 493

CONFERENCE DAIRY 529

Issue No. 8, August 1993

Modelling of Fluid Expulsion and Deformation Behaviour of Dewatering Sediments: F. T. Chang, G. P. Lennon, S. Pamukcu and B. Carson 531

Short-crested Wave-induced Soil Response in a Porous Seabed of Infinite Thickness: J. R. C. Hsu, D. S. Jeng and C. P. Tsai 553

Finite Element Modelling of Three-phase Flow in Deforming Saturated Oil Reservoirs: R. W. Lewis and Y. Sukirman 577

BOOK REVIEWS 599

CONFERENCE DIARY 601

Issue No. 9, September 1993

An Ellipse-based Discrete Element Model for Granular Materials: J. M. Ting, M. Khwaja, L. R. Meachum and J. D. Rowell 603

Negative Skin Friction on Single Piles in a Layered Half-space: C. H. Lim, Y. K. Chow and G. P. Karunaratne 625

SHORT COMMUNICATIONS

Finite Element Analysis of Axisymmetric Flow into Partially Penetrating Wells: K. K. Singh, S. P. Dasgupta and T. P. Ojha 647

Tensile Stresses Around Boreholes Due to Transient Fluid Flow: D. Y. C. Chan, B. D. Hughes and L. Paterson 659

LETTER TO THE EDITOR 669

CONFERENCE DIARY 675

Issue No. 10, October 1993

A Finite Element Solution of a Fully Coupled Implicit Formulation for Reservoir Simulation: Y. Sukirman and R. W. Lewis 677

Numerical Solution for the Dilation of a Fluid-saturated Porous Elastic Sphere Due to a Point Source of Fluid at the Centre of the Sphere: A. Solomon, D. P. Mason and L. O. Nicolaysen 699

A Review of Models for Predicting the Thermomechanical Behaviour of Soft Clays: H. N. Seneviratne, J. P. Carter, D. W. Airey and J. R. Booker 715

SHORT COMMUNICIATION

A Note of the Effect of Mesh Pattern on the Lower-bound Bearing Capacity of Embedded Strip Footings: D. N. Singh and P. K. Basudhar 735

BOOK REVIEW 745

CONFERENCE DIARY 747

ANNOUNCEMENT 751

Issue No. 11, November 1993

Numerical Analysis of Sedimentation and Consolidation by the Moving Finite Element Method: H. M. Shodja and J. R. Feldkamp 753

Fuzzy Finite Element Analysis of a Foundation on an Elastic Soil Medium: S. Valliappan and T. D. Pham 771

On the Description of Localized Deformation: S. Pietruszczak and X. Niu 791

SHORT COMMUNICATION
A Semi-analytical Solution Procedure for Predicting Damage Evolution at Interfaces: Z. Chen 807

CONFERENCE DIARY 821

ANNOUNCEMENT 825

Issue No. 12, December 1993

Continuum Model and Analysis of Wick-drained Systems: A. M. Amirebrahimi and L. R. Herrmann 827

An Approximate Analysis Procedure for Piled Raft Foundations: P. Clancy and M. F. Randolph 849

Influence of Relative Density and Stress Level on the Bearing Capacity of Sands: P. Simonini 871

CONFERENCE DIARY 891

ANNOUNCEMENT 894

AUTHOR INDEX 895